

## Figure 1

### DSP-12, 1656 Base Pairs

AAGCAGTGGTAACAACGCAGAGTACGCGGGCGAGGAGAATATCTTGCTGGGAGTGGACT  
TTTCCAGTAAGGAAAGTAAAAGCTGCACCATTGGG**ATGGT**TCTCCGACTGTGGAGCGAC  
ACGAAAATCCACCTTGATGGAGATGGTGGGTTCAGCGTGAGCACAGCAGGAAGGATGCA  
CATATTTAAGCCTGTGTCTGTCCAGGCCATGTGGTCTGCCCTGCAGGTGCTTCACAAGG  
CCTGCGAAGTGGCCCGGAGGCACAACTACTTCCCCGGGGGTGTAGCTCTCATCTGGGCT  
ACCTACTATGAGAGCTGCATCAGCTCCGAGCAGAGCTGCATCAACGAGTGGAACGCCAT  
GCAGGACCTGGAGTCTACGCGGGCCGACTCCCCCGCGCTATTTGTGGACAAGCCCCTG  
AAGGGGAAAGGACCGAGCGCCTCATCAAAGCCAAGCTCCGAAGCATCATGATGAGCCAG  
GATCTAGAAAATGTGACTTCCAAAGAGATTTCGTAATGAATTAGAGAAACAGATGAATTG  
TAACTTGAAGGAACCAAGGAATTTATAGACAATGAGATGCTACTTATCTTGGGACAGA  
TGGACAAGCCCTCCCTTATCTTCGATCATCTTTATCTCGGCTCTGAATGGAATGCATCC  
AATCTGGAGGAAGTGCAGGGCTCAGGGGTGATTACATTTTAAATGTTACCAGAGAAAT  
CGATAATTTTTTTCCTGGCTTATTTGCATATCATAACATCCGAGTCTACGATGAAGAGA  
CCACAGACCTCCTCGCCCACTGGAATGAAGCGTATCATTTTATAAACAAGCGAAGAGG  
AACCATTCCAAGTGCCTGGTGCATTGCAAAATGGGCGTGAGTCGCTCGGCCTCCACAGT  
CATAGCCTATGCAATGAAGGAATTCGGCTGGCCTCTGGAAAAAGCATATAACTATGTAA  
AGCAGAAGCGCAGCATCACGCGCCCCAACGCGGGCTTTATGAGGCAGCTGTCTGAGTAT  
GAAGGCATCTTGATGCAAGCAAACAGCGGCACAAACAGCTGTGGCGTCAGCAGACAGA  
CAGCAGCCTCCAGCAGCCTGTGGATGACCCTGCAGGACCTGGCGACTTCTTGCCAGAGA  
CCCCAGATGGCACCCCGGAAAGCCAGCTGCCCTTCTTGATGATGCCGCCAGCCCGGC  
TTAGGGCCCCCCTCCCCTGCTGTTTCCGGCGACTCTCAGACCCCCTTCTGCCTTCCCC  
TGAGGATGAAGCCGGCAGCTTGGTCCACCTGGAGGATCCGGAGAGGGAGGCTCTGTTGG  
AGGAAGCTGCTCCACCTGCAGAGGTGCACAGGCCGGCCAGACAGCCCCAGCAAGGTTCC  
GGACTCTGTGAGAAGGATGTGAAGAAGAACTAGAGTTTGGGAGTCCCAAAGGTCGGAG  
CGGCTCCTTGCTGCAGGTGGAGGAGACGGAAAGGGAGGAGGGCCTGGGAGCAGGGAGGT  
GGGGGCAGCTTCCAACCCAGCTCGATCAAAACCTGCTCAACTCGGAGAACCTAAACAAC  
AACAGCAAGAGGAGCTGTCCAACGGCATGGAGGTAGGCAGAGCCCGGCCTGCAGGGTG  
GCACACCCCATCCCTTCCATCCCACTCTAATTGGCCTACCTCAGCCTCTGTAGTAGGGA  
CTACAGGCACCCGCCACCACACCCAGCTGATTTTTTCTATTGTCTCCTCTGGGCCCCC  
AGCTCCCATCTCCAGGGACCTGAGGGTTCTTTCACAGGGT**GA**TTCTGCTGGTGGGTACG  
TAGTGCATACCTTATATAGCAAATTGAGAATCTGTTGGGAATAACACATATCTCTGCAC  
ACCATCTTCACCCCATGTACCTTATTCATACCCTGGGCAGGGCTTCCAACCTCAATTTCT  
TTTTGTGTATGTAAATTAAAACATATAATTTATCAGCCAAAAAAAAAAAAAAAAAAAA  
AA

## Figure 2

### DSP-12, 552 Amino Acids

MVLRLWSDTKIHLDDGGGFSVSTAGRMHIFKPVSVMWSALQVLHKACEVARRHNYFP  
GGVALIWATYYESCISSEQSCINEWNAMQDLESTRPDSPALFVDKPTGERTERLIKAK  
LRSIMMSQDLENVTSKEIRNELEKQMNCLNELKEFIDNEMLLILGQMDKPSLIFDHLY  
LGSEWNASNLEELQGGVDYILNVTREIDNFFPGLFAYHNIRVYDEETDLLAHWNEAY  
HFINKAKRNHNSKCL**VHCKMGVSR**SASTVIAYAMKEFGWPLEKAYNYVKQKRSITRPNAG  
FMRQLSEYEGILDASKQRHNKLWRQQTDSQLQPVDDPAGPGDFLPETPDGTPESQLPF  
LDDAAQPGGLGPPLPCCFRRLSDPLLSPEDDEAGSLVHLEDPEREALLEEAAPPAEVHRP  
ARQPQQGSLCEKDVKKKLEFGSPKGRSGSLQVEETEREEGLGAGRWGQLPTQLDQNL  
LNSENLNNNSKRSCPNGMEVGRARPAGWHTPSLPSHSNWPTSASVVGTGTRHHTQLIF  
FYCLLWAPSSHLQGPEGSFTG

### Figure 3

#### DSP-13, 1527 Base Pairs

CCTGGGAAGAAGTTATCTATCTCTCGAGTGACATTCAAGATATACCGTACCCCTCGGTTCTGTA  
AGTCCTCTAAGTTGGAGGCATTCCATTCTGAGCCGGGCCCC**ATG**ACCCTGAGCACGTTGGCCCCGC  
AAGAGGAAGGCGCCCCCTCGCTTGCACCTGCAGCCTCGGTGGCCCCGACATGATTCCTTACTTCT  
CCGCCAACGCGGTTCATCTCGCAGAACGCCATCAACCAGCTCATCAGCGAGAGCTTTCTAACTGT  
CAAAGGTGCTGCCCTTTTTCTACCACGGGGAAATGGCTCATCCACACCAAGAATCAGCCACAGA  
CGGAACAAGCATGCAGGCGATCTCCAACAGCATCTCCAAGCAATGTTCAATTTTACTCCGCCCAG  
AAGACAACATCAGGCTGGCTGTAAGACTGGAAAGTACTTACCAGAATCGAACACGCTATATGGT  
AGTGGTTTCAACTAATGGTAGACAAGACACTGAAGAAAGCATCGTCCTAGGAATGGATTTCTCC  
TCTAATGACAGTAGCACTTGTACCATGGGCTTAGTTTTTGCCTCTCTGGAGCGACACGCTAATTC  
ATTTGGATGGTGATGGTGGGTTTCAGTGTATCGACGGATAACAGAGTTCACATATTCAAACCTGT  
ATCTGTGCAGGCAATGTGGTCTGCACTACAGAGCTTACACAAGGCTTGTGAAGTCGCCAGAGCG  
CATAACTACTACCCAGGCAGCCTATTTCTCACTGGGTGAGTTATTATGAGAGCCATATCAACT  
CAGATCAATCCTCAGTCAATGAATGGAATGCAATGCAAGATGTACAGTCCCACCGGCCCCGACTC  
TCCAGCTCTCTTCACCGACATACCTACTGAACGTGAACGAACAGAAAGGCTAATTTAAACCAAA  
TTAAGGGAGATCATGATGCAGAAGGATTTGGAGAATATTACATCCAAAGAGATAAGAACAGAGT  
TGGAAATGCAAATGGTGTGCAACTTGCGGGAATTCAGGAATTTATAGACAATGAAATGATAGT  
GATCCTTGGTCAAATGGATAGCCCTACACAGATATTTGAGCATGTGTTCCCTGGGCTCAGAATGG  
AATGCCTCCAACCTTAGAGGACTTACAGAACCGAGGGGTACGGTATATCTTGAATGTCACTCGAG  
AGATAGATAACTTCTTCCCAGGAGTCTTTGAGTATCATAACATTCGGGTATATGATGAAGAGGC  
AACGGATCTCCTGGCGTACTGGAATGACACTTACAAATTCATCTCTAAAGCAAAGAAACATGGA  
TCTAAATGCCTTGTGCACTGCAAATGGGGGTGAGTCGCTCAGCCTCCACCGTGATTGCCTATG  
CAATGAAGGAATATGGCTGGAATCTGGACCGAGCCTATGACTATGTGAAAGAAAGACGAACGGT  
AACCAAGCCCAACCCAAGCTTCATGAGACAACTGGAAGAGTATCAGGGGATCTTGCTGGCAAGC  
TTCCTAGGCTTGATTCATGGAGGGAGGGACAAGCCCTGGGGAGAGAAAAGCACAGAATTTGAGT  
CAGTAGATCTGGTTTCCATTCTGGTTTACCCTCTTGCTGCAACCCTGAGAAGTTACTTCACAT  
TTCTCATCCTTACCTGACCCCATCTATAAA**TG**AAATCAAGAGATCCATCTCACAGGGTTATT  
GTGAATAAAATGTGTTTGAATGTTTATAAAAAAAAAAAAAAAAAAAAA

## Figure 4

### DSP-13, 509 Amino Acids

MTLSTLARKRKAPLACTCSLGGPDMIPYFSANAVISQNAINQLISESFLT VKGAALFLPRGN  
STPRISHRRNKHAGDLQOHLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVVSTNGRQDTEES  
IVLGMDFFSSNDSSTCTMGLVLPLWSDTLIHL DGGGFSVSTDNRVHIFKPVS VQAMWSALQSLH  
KACEVARAHNYYPGSLFTWVSYYESHINS DQSSVNEWNAMQDVQSHRPDSPALFTDIPTERER  
TERLIKTKLREIMMQDLENITSKEIRTELEMQMVCNLREFKEFIDNEMIVILGQMDSPTQIFE  
HVFLGSEWNASNLEDLQNRGVRYIILNVTREIDNFFPGVFEYHNIRVYDEEATDLLAYWNDTYKF  
ISKAKKHGSKCL**VHCKMGVSR**SASTVIAYAMKEYGWNLD RAYDYVKERRTVTKPNPSFMRQLEE  
YQGILLASFLGLIHGGRDKPWGEKSTEFESVDLVSIPGSPSCCNPEKLLHISHPYLTPSIK

**Figure 5**

**A DSP13 Alternate Splice Variant, 723 Base Pairs**

CTGCCCCGGCTTCTAACAGGCCACTGACCGGTACTCACTGGGGACCCACGCTCTAAGTTGTTGAT  
CTCTAGAACCGATTTTGGAAAAGGATTTGCCTTATTGAAGAAGACAGGATCATTCTTCTTTCTT  
TCCCATTTAAGAATAATCGTTATTAAGAATATCGTTTAAAGAATAATCGTTATTTCTCTCTTCTC  
AGACCTACTGAACGTGAACGAACAGAAAGGCTAATTAAAACCAAATTAAGGGAGAT**CATGATGC**  
AGAAGGATTTGGAGAATATTACATCCAAAGAGATAAGAACAGAGTTGGAAATGCAAATGGTGTG  
CAACTTGCGGGAATTCAAGGAATTTATAGACAATGAAATGATAGTGATCCTTGGTCAAATGGAT  
AGCCCTACACAGATATTTGAGCATGTGTTCCCTGGGCTCAGAATGGAATGCCTCCAACCTTAGAGG  
ACTTACAGAACCGAGGGGTACGGTATATCTTGAATGTCACTCGAGAGATAGATAACTTCTTCCC  
AGGAGTCTTTGAGTATCATAACATTCGGGTATATGATGAAGAGGCAACGGATCTCCTGGCGTAC  
TGGAATGACACTTACAAATTCATCTCTAAAGCAAAGAAACATGGATCTAAATGCCTTGTGCACT  
GCAAATGGGGGTGAGTCGCTCAGCCTCCACCGTGATTGCCTATGCAATGAAGGAATATGGCTG  
GAATCTGGACCGAGCCTATGACTATGTGAAAGAAAGACGAACGGTAACCAAGCCCAACCCAAGC  
TTCATGAGACAACCTGGAAGAGTATCAGGGGATCTTGCTGGCAAGCTTCCTAGGCTTGATTCATG  
GAGGGAGGGACAAGCCCTGGGGAGAGAAAAGCACAGAATTTGAGTCAGTAGATCTGGTTTCCAT  
TCCTGGTTTCACCCTCTTGCTGCAACCCTGAGAAGTTACTTCACATTTCTCATCCTTACCTGACC  
CCATCTATAAAAT**GAAAAT**CAAGAGATCCATCTCACAGGGTTATTGTGAATAAAAATGTGTTTG  
AATGTTTATAAAAAAAAAAAAAAAAAAAAAA

**B DSP13 Alternate Splice Variant, 241 Amino Acids**

MMQKDLENITSKEIRTELEMQMVNLRKFKEFIDNEMIVILGQMSPTQIFEHVFLGSEWNASN  
LEDLQNRGVRYILNVTREIDNFFPGVFEYHNIRVYDEEATDLLAYWNDTYKFISKAKKHGSKCL  
**VHCKMGVSR**SASTVIAYAMKEYGWNLDRAVDYVKERRTVTKPNPSFMRQLEEYQGILLASFLGL  
IHGGRDKPWGEKSTEFESVDLVSI PGSPSCCNPEKLLHISHPYLTPSIK

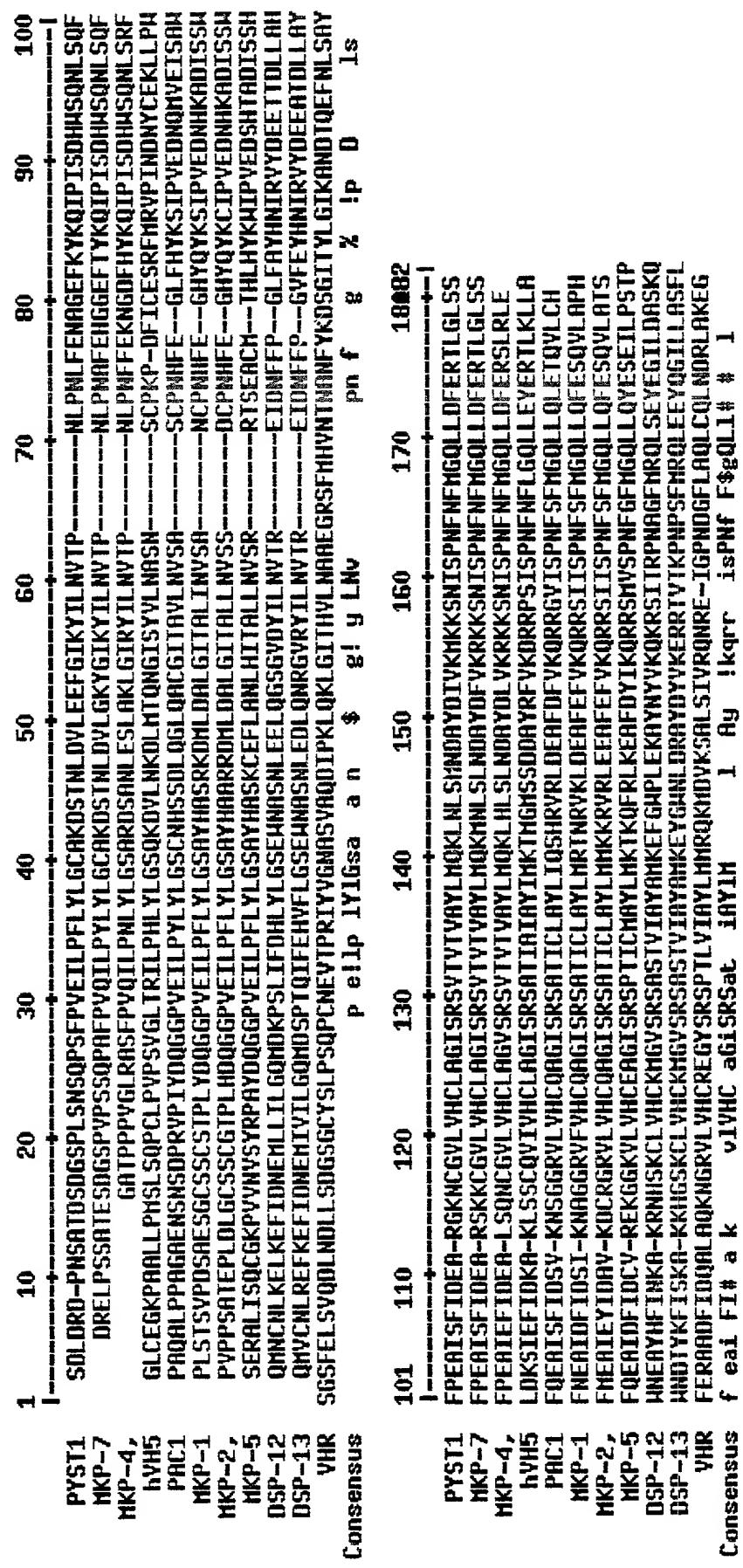


Figure 6

[illegible]